

Covalent Organic Framework Membrane for Efficient Removal of Emerging Trace Organic Contaminants from Water Environment

Tongtong Liu

Nanjing University of Science and Technology

Yayun Zhang

Nanjing University of Science and Technology

Zhen Shan

Nanjing University of Science and Technology

Miaomiao Wu

Nanjing University of Science and Technology

Bocong Li

Nanjing University of Science and Technology

Hao Sun

Nanjing University of Science and Technology

Guanyong Su

Nanjing University of Science and Technology

Rui Wang

Lanzhou University

Gen Zhang (✉ zhanggen@njust.edu.cn)

Nanjing University of Science and Technology <https://orcid.org/0000-0001-5948-8635>

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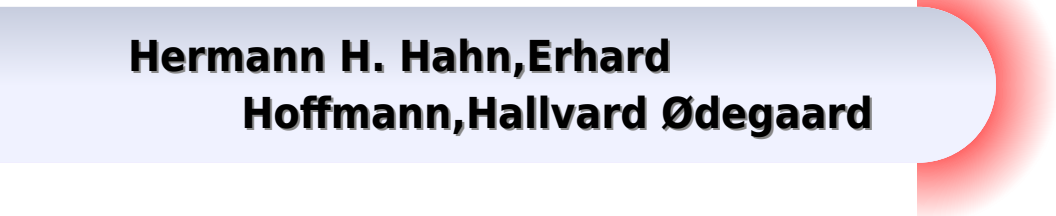
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Removal Of Trace Contaminants From The

**Hermann H. Hahn, Erhard
Hoffmann, Hallvard Ødegaard**



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Removal of Trace Contaminants from the Air, 1975 Science and Technology of Separation Membranes Tadashi Urugami, 2017-03-14 Offers a comprehensive overview of membrane science and technology from a single source Written by a renowned author with more than 40 years experience in membrane science and technology and polymer science Covers all major current applications of membrane technology in two definitive volumes Includes academic analyses applications and practical problems for each existing membrane technology Includes novel applications such as membrane reactors hybrid systems and optical resolution as well as membrane fuel cells *Treatise on Water Science*, 2010-09-01 Water quality and management are of great significance globally as the demand for clean potable water far exceeds the availability Water science research brings together the natural and applied sciences engineering chemistry law and policy and economics and the *Treatise on Water Science* seeks to unite these areas through contributions from a global team of author experts The 4 volume set examines topics in depth with an emphasis on innovative research and technologies for those working in applied areas Published in partnership with and endorsed by the International Water Association IWA demonstrating the authority of the content Editor in Chief Peter Wilderer a Stockholm Water Prize recipient has assembled a world class team of volume editors and contributing authors Topics related to water resource management water quality and supply and handling of wastewater are treated in depth *Removal of Trace Contaminants from the Air* Victor Reuel Deitz, American Chemical Society. Division of Colloid and Surface Chemistry, American Chemical Society. Division of Environmental Chemistry, 1975

Nanofiltration, 2 Volume Set Andrea Iris Schäfer, Anthony G. Fane, 2021-08-09 An updated guide to the growing field of nanofiltration including fundamental principles important industrial applications as well as novel materials With contributions from an international panel of experts the revised second edition of Nanofiltration contains a comprehensive overview of this growing field The book covers the basic principles of nanofiltration including the design and characterizations of nanofiltration membranes The expert contributors highlight the broad ranges of industrial applications including water treatment food pulp and paper and textiles The book explores photocatalytic nanofiltration reactors organic solvent nanofiltration as well as nanofiltration in metal and acid recovery In addition information on the most recent developments in the field are examined including nanofiltration retentate treatment and renewable energy powered nanofiltration The authors also consider the future of nanofiltration materials such as carbon as well as polymer based materials This important book Explores the fast growing field of the membrane process of nanofiltration Examines the rapidly expanding industrial sector s use of membranes for water purification Covers the most important industrial applications with a strong focus on water treatment Contains a section on new membrane materials including carbon based and polymer based materials as well as information on artificial ion and water channels as biomimetic membranes Written for scientists and engineers in the fields of chemistry environment food and materials the second edition of Nanofiltration provides a

comprehensive overview of the field outlines the principles of the technology explores the industrial applications and discusses new materials

Best Practice Guide on the Control of Arsenic in Drinking Water Prosun Bhattacharya, David Polya, Dragana Jovanovic, 2017-07-15 Arsenic in drinking water derived from groundwater is arguably the biggest environmental chemical human health risk known at the present time with well over 100 000 000 people around the world being exposed Monitoring the hazard assessing exposure and health risks and implementing effective remediation are therefore key tasks for organisations and individuals with responsibilities related to the supply of safe clean drinking water Best Practice Guide on the Control of Arsenic in Drinking Water covering aspects of hazard distribution exposure health impacts biomonitoring and remediation including social and economic issues is therefore a very timely contribution to disseminating useful knowledge in this area The volume contains 10 short reviews of key aspects of this issue supplemented by a further 14 case studies each of which focusses on a particular area or technological or other practice and written by leading experts in the field Detailed selective reference lists provide pointers to more detailed guidance on relevant practice The volume includes coverage of i arsenic hazard in groundwater and exposure routes to humans including case studies in USA SE Asia and UK ii health impacts arising from exposure to arsenic in drinking water and biomonitoring approaches iii developments in the nature of regulation of arsenic in drinking water iv sampling and monitoring of arsenic including novel methodologies v approaches to remediation particularly in the context of water safety planning and including case studies from the USA Italy Poland and Bangladesh and vi socio economic aspects of remediation including non market valuation methods and local community engagement

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Chemical Water and Wastewater Treatment VII Hermann H. Hahn, Erhard Hoffmann, Hallvard Ødegaard, 2002-05-31 Treating potable and polluted water for the world s population is still one of our most important challenges The United Nations estimate that more than 1 2 billion people suffer from inadequate water supply and an even larger number up to 4 billion people are without hygienic disposal of waste and wastewater Water technology and the necessary know how transfer has been the key objective of the Gothenburg symposia from the very

beginning The contents of this book respond to these challenges and demonstrate the impressive development of the field of chemical water and wastewater treatment The Chemical Water and Wastewater Treatment Series provides authoritative coverage of the key current developments in the chemical treatment of water and wastewater in theory or practice and related problems such as sludge production and properties and the reuse of chemicals and chemically treated waters and sludges For the tenth in the series the contributions document the development of the field of chemical water and wastewater technology both in terms of new technological developments as well as public and administrative acceptance and approval of the solutions offered Such new developments include the use of membrane technology the application of computational tools for kinetic process modelling and optimisation as well as the use of advanced oxidation processes in actual water treatment Chemical Water and Wastewater Treatment VII covers fundamental science new technological developments and practical experience and is an invaluable reference source for engineers scientists and administrators active in the treatment of drinking water municipal and industrial wastewater and sludges

Removal of Trace Contaminants from the Air, 1975

Handbook of Research on Resource Management for Pollution and Waste Treatment Affam, Augustine

Chioma, Ezechi, Ezerie Henry, 2019-10-25 It is necessary to understand the extent of pollution in the environment in terms of the air water and soil in order for both humans and animals to live healthier lives Poor waste treatment or pollution monitoring can lead to massive environmental issues such as diminishing valuable resources and cause a significant negative impact on society Solutions such as reuse of waste and sustainable waste management must be explored to prevent these adverse effects The Handbook of Research on Resource Management for Pollution and Waste Treatment is a collection of innovative research that examines waste and pollution treatment methods that can be adopted at local and international levels and examines appropriate resource management strategies for environmentally related issues Featuring coverage on a wide range of topics such as soil washing bioremediation and runoff handling this book is ideally designed for environmentalists engineers waste management professionals natural resource regulators environmental policymakers scientists academicians researchers and students seeking current research on viable resource management methods for the regeneration of their immediate environment

Energy Research Abstracts, 1990

Fate of Pharmaceuticals in the

Environment and in Water Treatment Systems Diana S. Aga, 2007-12-26 The detection of pharmaceutical residues remained elusive until instruments such as liquid chromatography and mass spectrometry became commonplace in environmental laboratories The documentation of the occurrence of pharmaceutical residues and endocrine disrupting chemicals in water resources has raised questions about their long term effects

NASA EP. United States. National

Aeronautics and Space Administration, 1971

Space Resources for Teachers: Chemistry United States. National

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Handbook of Public Water Systems HDR Engineering Inc., 2002-02-28

Public water systems deliver high quality water to the public They also present a vast array of problems from pollution

monitoring and control to the fundamentals of hydraulics and pipe fitting

Legacy, Pathogenic and Emerging Contaminants in the Environment Manish Kumar, Meththika Vithanage, Sanjeeb Mohapatra, Kishor Acharya, 2021-12-30 This is the time when legacy pathogenic and emerging contaminants must be talked about understood and dealt with together While the geogenic contamination of the groundwater is a well established phenomenon that is considered as legacy contaminants that risk people's health globally both pathogenic and emerging contaminants like various water borne pathogens and pharmaceutical personal care products PPCPs are becoming imperative for their acute and chronic toxic effects While contaminated groundwater consumption leads to skin pigmentation hyperkeratosis kidney damage cardiovascular disease and children's overall development poor sanitation related pathogenic microorganisms cause a significant number of child and prenatal deaths Simultaneously antibiotic microbial resistance AMR is expected to kill 100 million people by 2050 However there are rare texts that combine aspects of all these three under a single book cover This book gives an understanding of the occurrence fate and transport of geogenic microbial and anthropogenic contaminants in the groundwater It covers not only the scientific and technical aspects but also environmental legal and policy aspects for contaminant management in the environment under the paradigm shift of COVID 19 This book is intended to bring the focus on the natural contaminants biotic or abiotic in the post COVID Anthropocene which is illustrating a significant alteration of systems and the subsequent downstream impacts owing to globalization This book has compiled global work on emergence mass flow partitioning and activation of geogenic emerging and pathogenic contaminants in various spheres of environment with special emphasis on soil sediment and aquatic systems for enhancing the understanding on their migration and evolution for the welfare of mankind

Department of the Interior and related agencies appropriations for fiscal year 1987 United States. Congress. Senate. Committee on Appropriations. Subcommittee on the Department of the Interior and Related Agencies, 1986

Xenobiotics in the Urban Water Cycle Despo Fatta-Kassinos, Kai Bester, Klaus Kümmerer, 2010-01-06 The history of chemistry and pharmaceutical sciences is an impressive success story The products of chemical and pharmaceutical industries are present everywhere in our everyday life They help to pursue the modern way of living and they contribute to our high standard of living and safety mobility communication technologies food health textiles and drinking water treatment among many others These products are labeled under the categories pharmaceuticals pesticides detergents fertilizers dyes paints preservatives food additives and personal care products to name a few Within these categories groups of chemicals with similar structures can be found However often groups of chemicals with very different structures belong to the same category For a long time the production of chemicals and pharmaceuticals their usage and application was connected with the heavy pollution of the environment and serious health effects At the end of the last century it was realised that the products of chemical and pharmaceutical industries are presenting a new type of environmental pollution that may also pose a health risk to the consumer Most chemicals are used in so called open

applications in excessive amounts e.g. for personal care hygiene plant protection health and in textiles In many cases such as scents detergents textile chemicals surface disinfectants pesticides and others it is unavoidable that these chemicals are released into the environment according to their intended use

Space-cabin Atmospheres Emanuel Mann Roth, 1964

Space-cabin Atmosphere: Engineering trade-offs of one- versus two-gas systems Emanuel M. Roth, 1964

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