

The content of copper and zinc in the natural environment components of the park areas

Natalya V. Morgacheva*, Olga A. Dubrovina, Sergey V. Shcherbatykh, and
Elena B. Sotnikova

Bunin Yelets State University, 28, Kommunarov st., Yelets, Lipetsk region, Russian Federation

Abstract. The influence of man-made pollution on the accumulation of copper and zinc in the soil and plants of the forest park zones of Yelets was studied on the example of the woody-plant natural environment components prevailing in them hanging birch (*Betula pendula* Roth) and creeping wheatgrass (*Elytrigia repens*). As a result of the conducted studies, the features of the deposition of copper and zinc in the plant organs were revealed, and the total accumulation of the studied elements in the soil under green plantations was estimated.

1 Introduction

Technogenic pollution of the environment by industrial and motor transport emissions negatively affects all the components of the biosphere without exception. Under the negative influence of industrial exhalates, human health deteriorates, natural ecosystems are destroyed and degraded, new anthropogenic landscapes are formed [1]. In the modern world, in conditions of high anthropogenic pollution, plants are still the most effective means to reduce pollution [2].

The study of the problem of pollution of forest ecosystems most often begins with the analysis of the deposition of copper and zinc in the plant organs, since these two elements are easily bioaccumulated and are part of most of the raw materials used by industry in technological processes in the world. Adverse effects on plants, with excessive content of available zinc and copper compounds in the atmosphere and soil, can be hidden for a number of years [3].

In the air, copper and zinc are mainly in suspended form as compounds of copper oxide and zinc oxide, in soils they accumulate in surface horizons. Copper and zinc are biogenic elements that are necessary for plant life, they are part of enzymes that activate the processes of respiration, protein and carbohydrate metabolism of plants [4, 5, 6]. However, due to the current state of the biosphere, the colossal intake of chemical elements into the atmosphere and soil from man-made sources, zinc and copper in certain situations are also considered as pollutants or heavy metals (TM) [7]. Excessive exposure to metals can cause insufficiency of vital nutrients (iron, calcium, selenium, phosphorus, copper, etc.), inhibit a large number of enzymes, disrupt several aspects of plant biochemistry, including photosynthesis, pigment synthesis and membrane integrity [8, 9, 10].

* Corresponding author: biokafe@yandex.ru

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Xiaolong Qi



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Air Pollution, Acid Rain and the Environment Kenneth Mellanby, 1988-10-31 The Watt Committee on Energy became active in the effects on buildings for instance. Proposals for the study of Acid Rain during 1982. Perhaps the focus should therefore concentrate on measures only. Aspect of the subject that has become more than a promise of a real improvement as a result of certain during the subsequent five years is that the expenditure on Acid Rain is used loosely in public. The Watt Committee's study of this subject has been in two phases. The first dealt with the nature of the problem and culminated in the publication of a straightforward meaning of the words rain and of Watt Committee Report No 14 in 1984. That perhaps now having a significantly high level of Report was divided into four sections each of acidity is of only limited importance. To represent which was prepared by a sub group of the working group this perspective therefore the Watt Committee. Each group they dealt respectively with the fate of air borne pollution, vegetation and soils, fresh water, eutrophication. They decided that the study leading to the present Report should be entitled Air Pollution, Acid Rain and remedial strategy. In the second phase these and the Environment sub groups have brought their sections up to date. The Watt Committee's interest in Acid Rain and a fifth sub group was appointed to study arises from the fact that among its causes the buildings and non living materials. Mining and Its Environmental Impact Ronald E. Hester, Roy M. Harrison, 1994 This first Issue in the series contains nine articles written by leading British and American experts from the mining industry, regulatory authorities and academia and incorporates the latest research. Following an introductory overview of many of the issues of current concern to the field the book deals with a wide variety of topics ranging from the environmental impact of gold mining in the Brazilian Amazon through the issues relevant to coal mining, vegetative and other remediation strategies and procedures and water pollution to a thorough analysis of environmental management and policy initiatives. The issues raised in Mining and its Environmental Impact may point the way to future solutions to the economic, technological and environmental problems associated with mining in all its aspects and make this volume key reading for practitioners and researchers in the field as well as for environmentalists generally.

Trace Metals in the Environment and Living Organisms Philip S. Rainbow, 2018-08-23 Without trace metals there would be no life yet trace metals can eliminate life. Where, why and so what. *Hydroponics and Environmental Bioremediation* Nitish Kumar, 2024-02-19 Bioremediation is the use of biological interventions for mitigation of the noxious effects caused by pollutants in the environment including wastewater. It is a very useful approach for a variety of applications in the area of environmental protection. It has become an attractive alternative to the conventional clean up technologies that employ plants and their associated microorganisms to remove, contain or render harmless environmental contaminants. Hydroponic systems which utilize plants which are grown in a nutrient solution without soil are expanding and raising great interest in the commercial and scientific community. They are engineered systems designed and constructed to

utilize the natural processes involving macrophytes media and the associated microbial assemblages to assist in treating wastewaters This is a relatively new approach in wastewater treatment by which a variety of emergent macrophytes are grown hydroponically on top of floating platforms with their roots developing freely into the flowing wastewater The roots provide a support medium for attached microbial growth which participates in the treatment process Pollutants, Human Health and the Environment Jane A. Plant, Nick Voulvoulis, K. Vala Ragnarsdottir, 2012-02-08 Pollutants Human Health and the Environment is a comprehensive up to date overview of environmental pollutants that are of current concern to human health Clearly structured throughout the main body of the book is divided by pollutant type with a chapter devoted to each group of pollutants Each chapter follows a similar format to facilitate comparison and discussion For each pollutant the authors describe the sources pathways environmental fate and sinks as well as known toxicological effects Importantly the second chapter on heavy metals and other inorganic substances deals with trace element deficiencies which can have serious problems for human health Some rocks and soils are naturally low in some trace elements and intensive agriculture over the past half century has effectively mined many trace elements reducing their levels in soils and crops The final chapter is a discussion about the various risk assessment frameworks and regulations covering the main pollutants Comprehensive up to date coverage of environmental pollutants of concern to human health Clearly divided into pollutant type with each chapter devoted to a different pollutant group Clearly structured throughout with the same format for each chapter to help facilitate comparison and discussion and enable readers to prioritise chemicals of concern Description of the sources pathways environmental fate and known toxicological effect Includes contributions from leading researchers and edited by a team of experts in the field *Environmental Health Perspectives*, 1993 Reviews in Environmental Health, 1994, 1994

Environmental Policy in Mining Alyson Warhurst, Maria Ligia Noronha, 1999-09-17 Ecological Management of Mining Achieving Environmental Compliance is a study and comparison global in scope of current practices used by mining firms striving for ecological management The author takes an integrated and interdisciplinary approach in addressing analyzing and working towards solutions regarding the complex challenges posed by managing the environmental impacts of mining The issues addressed range from the ecotoxicological effects of metal residues to the land use effects of mining and from socioeconomic impacts to environmental regulation The goal of this book is to assist mining companies throughout the world to achieve environmental compliance and improve competitiveness in the context of growing environmental regulation and technological innovation It is an essential book for the wide variety of professionals working on issues in mining Like the book and the research itself the audience is integrated and interdisciplinary including engineers planners ecologists policy makers and economists Features **Essentials of Environmental Health** Robert Friis, 2012 Health Sciences Professions *Research Awards Index*, 1977 Utah BLM Statewide Wilderness Environmental Impact Statement : Final: pts. A-C. Public comments United States. Bureau of Land Management. Utah State Office, 1990 *Final Environmental Impact*

Statement, Exxon Coal and Minerals Co. Zinc-copper Mine, Crandon, Wisconsin, 1986 **Aquatic Toxicology and Environmental Fate** Glenn W. Suter, 1989 *Utah BLM Statewide Wilderness Environmental Impact Statement: Overview* United States. Bureau of Land Management. Utah State Office, 1985 Biosensors for Environmental Monitoring Toonika Rinken, Kairi Kivirand, 2019-11-20 Real time and reliable detection of molecular compounds and bacteria is essential in modern environmental monitoring For rapid analyses biosensing devices combining high selectivity of biomolecular recognition and sensitivity of modern signal detection technologies offer a promising platform Biosensors allow rapid on site detection of pollutants and provide potential for better understanding of the environmental processes including the fate and transport of contaminants This book including 12 chapters from 37 authors introduces different biosensor based technologies applied for environmental analyses *Clinical Environmental Health and Toxic Exposures* John Burke Sullivan, Gary R. Krieger, 2001 Now in its revised and updated Second Edition this volume is the most comprehensive and authoritative text in the rapidly evolving field of environmental toxicology The book provides the objective information that health professionals need to prevent environmental health problems plan for emergencies and evaluate toxic exposures in patients Coverage includes safety regulatory and legal issues clinical toxicology of specific organ systems emergency medical response to hazardous materials releases and hazards of specific industries and locations Nearly half of the book examines all known toxins and environmental health hazards A Brandon Hill recommended title **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1975 **Code of Federal Regulations, Title 40, Protection of Environment, Pt. 53-59, Revised as of July 1, 2011** U. s. Government Printing Office, 2011-09-12 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government **Environmental Impact of Preservative-treated Wood in a Wetland Boardwalk**, 2000 **Environmental Pollution of the Pearl River Estuary, China** Wen-Xiong Wang, Philip S. Rainbow, 2020-07-19 The Pearl River Estuary PRE is the Western name for a very large estuary in southern China that is currently home to an industrial metropolis of staggering size and one that is rapidly evolving The Chinese name for the Pearl River is Zhujiang Guangzhou lies at the head of the estuary and Macau and Hong Kong are on the western and eastern sides respectively of the wide opening of the estuary to the South China Sea The new cities of Zhuhai and Shenzhen lie immediately north of Macau and Hong Kong respectively The recent establishment of the Greater Bay Area GBA which covers the majority of the Pearl River Delta area with a total population of over 70 million will certainly put the PRE under strict environmental scrutiny The PRE system itself will provide a model system for environmental scientists owing to its major anthropogenic perturbation and influences as well as the highly dynamic nature of the estuary This book addresses the major environmental concerns regarding this estuary contaminants and other pollutants e g toxic metals organic contaminants and emerging compounds Questions addressed here include What are the sources of the contaminants What

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