

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

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**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].

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# Copper In The Environment Zinc In The Environment

**Yu Bin Tang, Qun Jie Xu, Yu Lin Min**



## **Copper In The Environment Zinc In The Environment:**

**Final Environmental Impact Statement, Exxon Coal and Minerals Co. Zinc-copper Mine, Crandon, Wisconsin**,1986     **Remediation of Heavy Metals in the Environment** Jiaping Paul Chen, Lawrence K. Wang, Mu-Hao S.

Wang, Yung-Tse Hung, Nazih K. Shammash, 2016-11-18 This book provides in depth coverage of environmental pollution sources waste characteristics control technologies management strategies facility innovations process alternatives costs case histories effluent standards and future trends in waste treatment processes It delineates methodologies technologies and the regional and global effects of important pollution control practices It focuses on toxic heavy metals in the environment various heavy metal decontamination technologies brownfield restoration and industrial agricultural and radioactive waste management It discusses the importance of metals such as lead chromium cadmium zinc copper nickel iron and mercury

*Pollutants, Human Health and the Environment* Jane A. Plant, Nick Voulvoulis, K. Vala Ragnarsdottir, 2012-03-05

*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     **Biological**

**Implications of Metals in the Environment** Harvey Drucker, Raymond E. Wildung, Pacific Northwest Laboratory, United States. Energy Research and Development Administration. Division of Biomedical and Environmental Research, 1977     *A*

*Textbook of Environmental Chemistry and Pollution Control* SS Dara | DD Mishra, 2006 The Progress and Prosperity of any country mainly depend upon the quality of its human resource which in turn depends upon the quality of its educational system Higher and technical education being at the apex of the pyramid of education play a major role in the overall development of any country One of the major drawbacks of the higher and technical education in our country is the palpable gap between the world of learning and the world of work     **Reviews in Environmental Health**, 1994 ,1994     *Metals in*

*Society and in the Environment* Lars Landner, Rudolf Reuther, 2006-01-15 In 2002 the Swedish Metal Information Task Force MITF engaged the Environmental Research Group MFG to update previous monographs on copper zinc and major alloying metals such as chromium nickel and molybdenum in society and in the environment This book presents new results on metal fluxes from society to the environment on metal speciation in water soil and sediment and its interpretation in terms of mobility biological uptake and toxicity The scientific fundamentals of new approaches like the Acid Volatile Sulphide AVS concept to predict metal bioavailability in sediments and the Biotic Ligand Model BLM to calculate the toxicity of metals to aquatic organisms are critically evaluated with a focus on copper nickel zinc and in part chromium Recent scientific advances now offer an improved understanding of the mechanisms and factors controlling the intricate behaviour of trace metals their interactions uptake and effect in natural systems Traditional risk assessment methods usually built on quite crude toxicity tests done in unrealistic laboratory waters and did not consider natural conditions In contrast modern approaches now increasingly involve the full utilisation of site specific factors which are decisive for the formation of bioavailable and toxic metal forms Audience This book provides excellent guidance not only to scientists focusing on the assessment of the ecological risk of metals but also to authorities decision makers in industry educational staff and the interested public concerned with the occurrence and fate of trace metals

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