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Anthropogenic emission of platinum-group elements (Pt, Pd and Rh) into the environment: concentration, distribution and

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geochemical behaviour in soils

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Since the implementation of catalysts containing platinum-group-elements (PGE) for the control of vehicle emissions in 1975, a controversial discussion has begun on PGE emissions and eventual consequences for the environment. However, a comprehensive overview of the various works and results in different scientific areas is still lacking.

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The platinum group elements (PGEs) — platinum, palladium and rhodium with their excellent properties are used in exhaust catalysts to reduce the atmospheric emissions of passenger cars.

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The emission of platinum group elements (PGE) from automobile catalytic converters has led to rapid increases in Pt, Pd and Rh concentrations in roadside media. This article represents the first detailed study to assess PGE levels in road dusts and roadside soils in Australia.

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Anthropogenic platinum-group element emissions : their impact on man and environment. [Fathi Zereini; Friedrich Alt;] -- Since the implementation of catalysts containing platinum-group-elements (PGE) for the control of vehicle emissions in 1975, a

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anthropogenic emission of platinum group elements pt pd platinum group elements pge in particular platinum pt palladium pd and rhodium rh are few of the least abundant elements in the earths continental

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This study investigates platinum group elements (PGEs) in the breathable (PM 10) and respirable (PM 2.5) fractions of air particulates from a heavily polluted Indian metro city. The samples were collected from traffic junctions at the heart of the city and industrial sites in the suburbs during winter and monsoon seasons of 2013 – 2014.

Anthropogenic platinum group element (Pt, Pd, Rh ...

Platinum group elements (PGE) of anthropogenic origin have been reported in rainwater, snow, roadside soil and vegetation, industrial waste, and urban airborne particles around the world. As recent studies have shown that PGE are bioavailable in the environment and pose health risks at chronic levels, the extent of PGE pollution is of global concern.

Complex anthropogenic sources of platinum group elements ...

We find that at the Earth ' s surface anthropogenic fluxes of iridium, osmium, helium, gold, ruthenium, antimony, platinum, palladium, rhenium, rhodium and chromium currently exceed natural fluxes. For these elements mining is the major factor of anthropogenic influence, whereas petroleum burning strongly influences the surficial cycle of rhenium.

Anthropogenic Disturbance of Element Cycles at the Earth ' s ...

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Platinum group elements (PGE), in particular platinum (Pt), palladium (Pd), and rhodium (Rh), are few of the least abundant elements in the Earth ' s continental crust, with estimated concentrations of 0.4 – 0.06 ppb (Wedepohl 1995). These metals and

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their compounds are highly valued by chemical, food and pharmaceutical industries for use as catalysts in a wide range of reactions like ...

Anthropogenic platinum group element (Pt, Pd, Rh ...

Since the implementation of catalysts containing platinum-group-elements (PGEs) for the control of vehicle emissions in 1975, a controversial discussion has begun on PGE emissions and eventual This book covers all aspects of anthropogenic PGE emissions.

Anthropogenic platinum-group element emissions : their ...

The platinum-group metals (abbreviated as the PGMs; alternatively, the platinoids, platinides, platidises, platinum group, platinum metals, platinum family or platinum-group elements (PGEs)) are six noble, precious metallic elements clustered together in the periodic table. These elements are all transition metals in the d-block (groups 8, 9, and 10, periods 5 and 6).

Platinum group - Wikipedia

Significant anthropogenic and rain contributions are also expected for iridium. In contrast, platinum, palladium and rhodium are almost exclusively anthropogenic. The larger enrichments of platinum, palladium and rhodium indicate that automobile catalysts are the source of platinum group elements to Thoreau's bog.

Source characterisation of atmospheric platinum group ...

Abstract Platinum, palladium, and rhodium are released into the environment from automobile catalysts as metal or oxide dusts. Environmentally man is exposed to these platinum group elements (PGE) in low and chronic doses. The main pathway of environmental exposure is the oral intake of dust containing trace amounts of the PGE.

Toxicology of platinum, palladium, rhodium, and their ...

Even though the catalytic converter has played a vital role in reducing the emissions of noxious substances, it has also gained attention due to the emission of platinum, palladium and rhodium – elements of the platinum group (PGE) which catalyse the conversion of HC, CO and NO_x to H₂O, CO₂ and N₂.

Since the implementation of catalysts containing platinum-group-elements (PGE) for the control of vehicle emissions in 1975, a controversial discussion has begun on PGE emissions and eventual consequences for the environment. However, a comprehensive overview of the various works and results in different scientific areas is still lacking. This book covers all aspects of anthropogenic PGE emissions and their consequences for man and environment. The interdisciplinary approach is

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substantiated by contributions from the fields of environmental geosciences, analytical chemistry, biology and occupational medicine. The articles mirror the actual status of scientific work and discuss environmentally related topics. Modern analytical methods for various environmental matrices as well as models of the current and future geochemical behaviour of PGE in the environment are presented. Bioavailability and toxicological and allergic potentials are discussed.

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This edited volume presents new data and insights from the most internationally respected PGE experts, representing a variety of disciplines ranging from chemistry, geochemistry, biology, environmental science to toxicology and environmental health. It builds upon three previous co-edited books published by Springer, Zereini and Alt (Eds.) (1999, 2000 and 2006), incorporating the most recent advances on the topic. The book covers the following topical areas related to PGE: sources and applications, analytical methods, environmental fate, bioavailability and chemical behaviour, use of bioindicators and human exposures and health risk potential. Highly interdisciplinary in orientation, this book is a comprehensive guide to academics, students and professionals working in a number of different scientific fields, who are interested in topics related to platinum metal emissions in the environment.

To date the investigations of metal emissions from automotive catalysts has focused mainly on platinum. Since 1993, however, platinum has been increasingly replaced by palladium as the predominant substance in pollution-control catalysts. Now the release of palladium in automotive catalysts is becoming just a critical problem as that of platinum. The editors present the latest research results related to all aspects of palladium emissions in the environment, as well as an assessment of their effects on the environment and health. The book focuses on the following topics: analytical methods; sources of palladium emissions; occurrence, chemical behaviour and fate in the environment; bioavailability and biomonitoring; and health-risk potential.

On a Sustainable Future of the Earth ' s Natural Resources is divided into three sections, with individual chapters contributed by

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experts on different facets of the earth sciences, natural resources management and related issues. The first section focuses on the status of Earth's resources; land, water, biota and atmosphere. Reviews on the rate of exploitation and the need to conserve these resources for future sustenance are also covered in this section. The following section includes chapters elucidating environmental, ecological, climatological and anthropological pressures on sustained nourishment with the Earth's resources. The last section describes management practices, issues and perspectives on sociological, legal, administrative, ICT and strategic efforts that need to be implemented in order to sustain our natural resources. This book covers a broad spectrum of the Earth's resources and sustenance, offering a comprehensive perspective on their past, present and future.

This handbook is unique in its comprehensive coverage of the subject and focus on practical applications in diverse fields. It includes methods for sample preparation, the role of certified reference materials, calibration methods and statistical evaluation of the results. Problems concerning inorganic and bioinorganic speciation analysis, as well as special aspects such as trace analysis of noble metals, radionuclides and volatile organic compounds are also discussed. A significant part of the content presents applications of methods and procedures in medicine (metabolomics and therapeutic drug monitoring); pharmacy (the analysis of contaminants in drugs); studies of environmental samples; food samples and forensic analytics – essential examples that will also facilitate problem solving in related areas.

State-of-the-art tools and applications for food safety and food science research Atomic spectroscopy and mass spectrometry are important tools for identifying and quantifying trace elements in food products-elements that may be potentially beneficial or potentially toxic. The Determination of Chemical Elements in Food: Applications for Atomic and Mass Spectrometry teaches the reader how to use these advanced technologies for food analysis. With chapters written by internationally renowned scientists, it provides a detailed overview of progress in the field and the latest innovations in instrumentation and techniques, covering: Fundamentals and method development, selected applications, and speciation analysis Applications of atomic absorption spectrometry, inductively coupled plasma atomic emission spectrometry, and inductively coupled plasma mass spectrometry Applications to foods of animal origin and applications to foods of vegetable origin Foreseeable developments of instrumental spectrometric techniques that can be exploited to better protect consumers' health, with a full account of the most promising trends in spectrometric instrumentation and ancillary apparatuses Applicable laws and regulations at the national and international levels This is a core reference for scientists in food laboratories in the public and private sectors and academia, as well as members of regulatory bodies that deal with food safety.

Trace elements occur naturally in soils and some are essential nutrients for plant growth as well as human and animal health. However, at elevated levels, all trace elements become potentially toxic. Anthropogenic input of trace elements into the natural environment therefore poses a range of ecological and health problems. As a result of their persistence and potential toxicity, trace elements continue to receive widespread scientific and legislative attention. Trace Elements in Soils reviews the latest research in the field, providing a comprehensive overview of the chemistry, analysis, fate and regulation of trace elements in

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soils, as well as remediation strategies for contaminated soil. The book is divided into four sections:

- Basic principles, processes, sampling and analytical aspects: presents an overview including general soil chemistry, soil sampling, analysis, fractionation and speciation.
- Long-term issues, impacts and predictive modelling: reviews major sources of metal inputs, the impact on soil ecology, trace element deficient soils and chemical speciation modelling.
- Bioavailability, risk assessment and remediation: discusses bioavailability, regulatory limits and cleanup technology for contaminated soils including phytoremediation and trace element immobilization.
- Characteristics and behaviour of individual elements

Written as an authoritative guide for scientists working in soil science, geochemistry, environmental science and analytical chemistry, the book is also a valuable resource for professionals involved in land management, environmental planning, protection and regulation.

Reviews of Environmental Contamination and Toxicology attempts to provide concise, critical reviews of timely advances, philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics, in any segment of the environment, as well as toxicological implications.

Increased consumption of electronic equipment has brought with it a greater demand for rare earth elements and metals. Adding to this is the growth in low carbon technologies such as hybrid fuel vehicles. It is predicted that the global supply of rare earth elements could soon be exhausted. A sustainable approach to the use and recovery of rare earth elements is needed, and this book addresses the political, economic and research agendas concerning them. The problem is discussed thoroughly and a multi-disciplinary team of authors from the chemistry, engineering and biotechnology sectors presents a range of solutions, from traditional metallurgical methods to innovations in biotechnology. Case studies add value to the theory presented, and indirect targets for recovery, such as municipal waste and combustion ash are considered. This book will be essential reading for researchers in academia and industry tackling sustainable element recovery, as well as postgraduate students in chemistry, engineering and biotechnology. Environmental scientists and policy makers will also benefit from reading about potential benefits of recovery from waste streams.

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