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Pages 73-83 Zereini, F. (et al.)

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## **Anthropogenic Platinum-Group Element Emissions: Their ...**

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

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roadside soils in Australia.

## **Anthropogenic platinum group element (Pt, Pd and Rh ...**

Anthropogenic displacements of platinum group elements (PGE: osmium, iridium, rhodium, ruthenium, palladium, platinum) on the Earth's surface are many orders of magnitude higher than those derived from non-anthropogenic (i.e., natural) sources.

## **Platinum Group Element Pollution is a Growing Concern in ...**

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.

## **Anthropogenic Platinum-Group Element Emissions: Their ...**

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Platinum group elements (PGE, i.e. Pt, Pd, Rh, Ir, Ru, Os) are among the least abundant elements in the Earth's continental crust. PGE concentrations in urban and roadside environments are,...

## **(PDF) Sources of Platinum Group Elements in the Environment**

The extent to which humans are modifying Earth's surface chemistry can be quantified by comparing total anthropogenic element fluxes with their natural counterparts (Klee and Graedel, 2004). We quantify anthropogenic mass transfer of 77 elements from mining, fossil fuel burning, biomass burning, construction activities, and human apportionment of terrestrial net primary productivity, and ...

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

This study investigates platinum group elements (PGEs) in the breathable (PM10) and respirable (PM2.5) fractions of air particulates from a heavily

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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 ... - SpringerPlus**

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 consequences for the environment. This book covers all aspects of anthropogenic PGE emissions.

## **Anthropogenic platinum-group element emissions : their ...**

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

# Read Online Anthropogenic Platinum Group Element Emissions Their Impact On Man pose health risks at chronic levels, the extent of PGE pollution is of global concern.

## **Complex anthropogenic sources of platinum group elements ...**

1. Author(s): Zereini, Fathi, 1949-;  
Alt, Friedrich, 1938- Title(s):  
Anthropogenic platinum-group element  
emissions : their impact on man and  
environment/ Fathi Zereini ...

## **100964102 - NLM Catalog Result**

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<sub>x</sub> to H<sub>2</sub>O, CO<sub>2</sub> and N<sub>2</sub>.

## **Determination of anthropogenic input of Ru, Rh, Pd, Re, Os ...**

Platinum, palladium, and rhodium are



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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 ...**

The platinum group metals (PGM) Pt, Pd and Rh are emitted into the environment mainly by catalytic exhaust gas converters of cars. As PGM accumulate in sediments of aquatic ecosystems, the study was focused on the uptake of the noble metals by European eels, *Anguilla anguilla* infected with the acanthocephalan *Paratenuisentis ambiguus*. Eels were exposed to ground catalytic converter material for ...

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