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Emissions Their
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emission of platinum-group elements (Pt, Pd and Rh) into the environment: concentration, distribution and geochemical behaviour in soils

Anthropogenic Platinum-Group Element Emissions | SpringerLink

Since the implementation of catalysts containing platinum-group-elements

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(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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areas is still lacking.

Anthropogenic Platinum-Group Element Emissions - Their ...

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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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.

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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 roadside soils in Australia.

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

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

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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

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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 ...

While exposure of relatively low volumes of platinum group

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metal emissions may not have any long term health effects, there is considerable concern for how the accumulation of Pt metal emissions will impact the environment as well as human health.

Platinum group - Wikipedia

Even though the catalytic converter has played a vital role in reducing the emissions

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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.

Determination of anthropogenic input of Ru, Rh, Pd, Re, Os

...

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platinum group elements (PGEs) are widely applied in vehicle exhaust catalytic converters (VECs), industrial catalysts, and pharmaceuticals, making the PGEs, especially Pt, Pd, and Rh, become the newly environmental pollutants in some fields. Given the positive correlations between the Pt/Pd and

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[Migration and transformation of anthropogenic platinum group element emissions: Their impact on man and environment]

Abstract Platinum, palladium, and rhodium are released into the environment from automobile catalyts as metal or oxide dusts.

Environmentally man is exposed to these platinum group elements (PGE) in low and chronic doses. The main pathway of

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environmental exposure is the oral intake of dust containing trace amounts of the PGE.

Toxicology of platinum, palladium, rhodium, and their

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Abstract.

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emission of platinum- group elements into the ...

Platinum Group
Element Pollution is a
Growing Concern in
Countries with
Developing Economy.
Environmental Science
& Technology 2013, 47
(24) , 13903-13904.

DOI:
10.1021/es404890e. ...
Evidence of increased
anthropogenic
emissions of platinum:
Time-series analysis of

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mussels (1991-2011)
of an urban beach.

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

Osmium is among the
least abundant
elements in the Earth's
continental crust.

Recent anthropogenic
Os contamination of
the environment from
mining and smelting
activities, automotive
catalytic converter use,

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and hospital discharges has been documented. Here we present evidence for anthropogenic overprinting of the natural Os cycle using a ca. 7000-year record of atmospheric Os deposition and ...

Anthropogenic Forcings on the Surficial Osmium Cycle ...

The Bushveld Igneous Complex (BIC) is the

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largest layered igneous intrusion within the Earth's crust. It has been tilted and eroded forming the outcrops around what appears to be the edge of a great geological basin: the Transvaal Basin. It is approximately 2 billion years old and is divided into four different limbs: the northern, southern, eastern, and western limbs.

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