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

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

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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.

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

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

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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.

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## 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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## 30 E-Learning Book Anthropogenic Platinum Group Element ...

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 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 ...

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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.

## 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

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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 ...

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>.

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