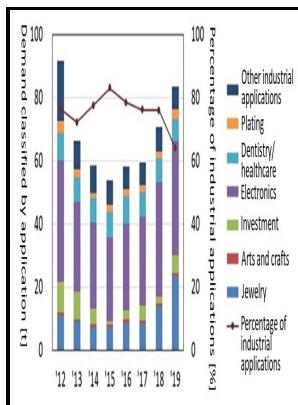


# A platinum-group metals consumption and recycling flow model

U.S. Dept. of the Interior - A system dynamics model for platinum group metal supply, market depletion of extractable amounts, ore grade, recycling and stocks



Description: -

- Platinum group - Recycling - Mathematical models

Platinum group industry - Mathematical modelsA platinum-group metals consumption and recycling flow model

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## The Environmental Profile of Platinum Group Metals

Summing it up in a deposit by deposit assessment, the total estimate sums up in the range of 700—900 million ton of nickel. Journal of Industrial Ecology 2019, 23 5 , 1143-1158.

## Solvometallurgical Recovery of Platinum Group Metals from Spent Automotive Catalysts

Ocean seafloor mining does not yet occur, and no operational method for putting it into full operation do not exist. A recent United Nations Environment Programme UNEP report shows that this is significantly more than for most other metals, but it still leaves room for improvement compared to the rates of recycling seen in most industrial pgm applications. Seven industrial sectors and product groups form the main users of PGMs in Europe, comprising the chem.

## Recycling the Platinum Group Metals: A European Perspective

The Pd-containing residue is dissolved in water, from which Pd sponge can be produced by reduction with formic acid. PGM recovery from spent catalysts is a challenge due to the fact that spent catalysts are diverse and complex in terms of material and component makeup as well as the original catalyst's manufg. The treatment of substitutability, time horizons, and the aggregation level of criticality indicators are shown to be significant in this regard.

## Researches

The result is that Estimate A indicates that the URR for nickel is about 500 million ton of nickel on land, and Estimate B suggests that URR is 716 million ton of nickel on land. LCA, 14 2 , 2009 pp.

## Circular Economy at BASF

**Model Validation** The performance of the WORLD7 model for nickel was tested on field data to assess its reliability. The Global Anthropogenic Gallium System: Determinants of Demand, Supply and Efficiency Improvements.

## **NIOSHTIC**

Next, the residue that was obtained after selectively leaching the Pd and that was rich in Pt and Rh was leached with O. The implications are apparent, with lower ore grade, the more work and the more cost must be spent to get the metal out.

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