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Platinum Lake Technology Inc., Canada (Ryder and Dymock, 1990) developed a hydrometallurgical process for the recovery of precious metals from spent automotive catalysts following acid leaching in chloride medium. The small-scale process with 95% Pt and 98% Pd recovery was used for commercial applications.

~~Hydrometallurgical recovery/recycling of platinum by the ...~~

The liquid-liquid extraction of platinum(IV) and palladium(II) from hydrochloric acid media was carried out using N,N-dimethyl-N,N-dicyclohexylthiodiglycolamide (DMDCHTDGA) in 1,2-dichloroethane (1,2-DCE). Pt(IV) is efficiently extracted from 5 M HCl onwards (%E \approx 97%), whereas Pd(II) is quantitatively recovered from 1 to 8 M HCl solutions.

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~~Recovery of Platinum and Palladium from Chloride Solutions ...~~

S. Aktas and M.H. Morcali, \square Platinum recovery from dilute platinum solutions using activated carbon, \square Transactions of Nonferrous Metals Society of China, 21 (2011a), 2554-2558. CrossRef Google Scholar

~~Recovery of Platinum from Dilute Chloride Media Using ...~~

Abstract The investigation is devoted to sorption recovery of platinum (II, IV) from chloride solutions, freshly prepared and kept over 3 months, on commercial anion exchangers with different...

~~Ion exchange recovery of platinum from chloride solutions ...~~

Effective Dissolution of Platinum by Using Chloride Salts in Recovery Process Abstract. Platinum (Pt) is typically recovered by employing dissolution processes in aqueous solutions; however, these... Introduction. Platinum (Pt) is characterized by high heat resistance, high corrosion resistance, ...

~~Effective Dissolution of Platinum by Using Chloride Salts ...~~

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The ionic state of platinum in chloride solutions depends on medium acidity, concentration of chloride ions and temperature. Hexachloroplatinate ions (PtCl_6^{2-}) predominate in strong acidic solutions ($\text{HCl} \approx 3 \text{ mol L}^{-1}$). Under reduction of the free acidity (increase in pH value) aquation and hydrolysis take place.

~~Recovery of platinum, tin and indium from spent catalysts ...~~

Precipitating Platinum ammonium chloride from Aqua Regia Solution. The source of the Platinum was 16.7 grams of 90/10 Pt/Ir thermocouples. The alloy took 7 h...

~~Precipitating Platinum - YouTube~~

Platinum 2012 731 After the sodium chloride pre-treatment, the bed was again washed with an excess amount of water over a 2-hour period to remove excess sodium chloride solution from the bed. In the case when weak-base and chelating resins were used, the resin was washed with 5 bed-

~~THE RECOVERY OF PLATINUM, PALLADIUM, AND GOLD FROM A ...~~

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The solution is reduced by adding ferrous chloride to remove the gold. The addition of ammonium chloride to the filtrate precipitates impure ammonium chloroplatinate, which is calcined to a crude platinum sponge, redissolved, reprecipitated as pure ammonium chloroplatinate and calcined again to give pure platinum sponge.

~~Extraction and Refining of the Platinum Metals | Johnson ...~~

recovery of platinum from chloride leaching solution of is available in our digital library an online access to it is set as public so you can download it instantly. Our digital library hosts in multiple countries, allowing you to get the most less latency time to download any of our books like this one. Kindly say, the recovery of platinum ...

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The recovery of PGM from products of processing of secondary raw materials occurs often by means of sulfuric acid and sulfate solutions. In these solutions, platinum and rhodium exist in the form of sulfate complexes, which are more kinetically inert, compared to corresponding chloride complexes, especially of rhodium [1,3].

~~Kinetics of Simultaneous Recovery of Platinum (II,IV) and ...~~

to simultaneously recover three different platinum group elements (PGE), platinum(IV), palladium(II) and rhodium(III), present in a chloride solution produced by the leaching of spent automotive catalysts. The tested ion exchangers included a resin with a quaternary

~~MURDOCH RESEARCH REPOSITORY~~

Recovery of platinum from a selective linear paraffin dehydrogenation spent catalyst is reported using cyanide leaching method followed by adsorption of the cyanide platinum complex onto an ...

~~Recovery of Platinum from Chloride Leaching Solution of ...~~

After leaching process at optimum conditions, platinum was firstly precipitated in the form of $(\text{NH}_4)_2\text{PtCl}_6$ (ammonium chloroplatinate) by adding (5ml/l) of ammonium chloride (NH_4Cl) as a precipitant agent. Then, palladium was precipitated in the form of $(\text{NH}_4)_2\text{PdClO}_3$ (palladium ammonium chlorate) by adding (5g/l) of sodium chlorate (NaClO_3) as a precipitant agent to the remaining solution after ...

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platinum recovery from dilute acidic aqueous solutions. This method might be used to reduce metal losses in commonly applied technologies of precious metal refining and separation. Experimental In all our experiments, commercially available AC (AC) purchased from Norit(ROX 0.8) was applied in non-modified form. The platinum(IV) chloride

~~Kinetic studies of the removal of Pt(IV) chloride complex ...~~

Abstract. The objective of this study was to investigate the applicability and performance of the selected ion exchangers with different

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physicochemical characteristics and functional groups to simultaneously recover three different platinum group elements (PGE), platinum(IV), palladium(II) and rhodium(III), present in a chloride solution produced by the leaching of spent automotive catalysts.

~~Recovery of platinum, palladium and rhodium from acidic ...~~

Recovery of high purity Pt, Pd, and Rh is achieved by the proposed recycling process. The results demonstrate that separation using phosphonium-based ILs is useful for recycling PGMs. AB - Platinum group metals (PGMs) play an important role in the automotive industry as key components of exhaust catalysts.

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