

ANALYSIS OF THE GLOBAL DISTRIBUTION OF PLATINUM IN RAW MINERAL MATERIALS

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ANNOTATSIYA

Ushbu maqolada platina guruhi elementlarining dunyo mamlakatlarida mavjud bo'lish holatlari va turlari, shu bilan birga platina guruhi elementlarining qazib olish usullari, yer yuzida qay holatda va birikma shaklida o'chrashi, zaxiralari haqida ma'lumotlar keltirilgan

АННОТАЦИЯ

В данной статье представлена информация о наличии и типах платиновых элементов в странах мира, а также о методах добычи платиновых элементов, их агрегатных и сложных формах на земле и запасах.

ANNOTATION

This article provides information on the availability and types of platinum elements in countries around the world, as well as on the methods of mining platinum elements, their aggregate and complex forms on Earth and reserves.

Kalit so'zlar: platina, metal, zaxira, sulfid, minerallar, magma, polumetallar, komponent, oltin, rudalar.

Ключевые слова: платина, металл, запас, сульфид, минералы, магма, полуметаллы, компонент, золото, руды.

Key words: platinum, metal, reserve, sulfide, minerals, magma, semi-metals, component, gold, ore.

Introduction .

USA Geological service to the information according to platinum main natural reserves South Africa, Russia, Zimbabwe, North America and In China located In the



world the most major platinum group metal reserves Southern In Africa Bushveld in the array located Currently the leading platinum producer countries South Africa, Russia, Canada, USA and Zimbabwe. Small scale platinum production issue Colombia and It is also ongoing in a number of other countries . Platinum mining in Australia nickel mines with related

Basing research .

Geological of platinum group elements (PGE). mines big and important type igneous in mafic rocks sulfide minerals related to . PGEs sulfide minerals usually associated with magma and sulfide of solutions separation and fractionation as a result to the surface will come of ores mineralogical nature separation and fractionation in the process depends on a number of factors .

Pt and Pd for from them most importantly sulphide in solution (of semimetals) semimetals (Bi , The presence of Te and is the concentration . Ro , Ir , Os in a Ru almost always in solid solutions exists .

Natural igneous sulfide ore in systems PGMs are from silicate magma dissociated sulphide of solutions uncompromising in drops is collected . Studies have confirmed that sulfide solutions fractionation and cooling in the process Rh , Ir , Os , Ru in a What? pentlandite and recrystallization in pyrrhotite possible . Pt , Pd and Oh is an important factor determining the behavior of is the amount of semimetals in the sulfide liquid because Pd , especially Pt and Au , sulfides when crystallized it is divided into a liquid rich in immiscible semi- metals . If the amount of semi- metals is limited if , Pd of a large part and probably Pt of part pentlandite like sulfides in the solid solution inside exists will be Relatively high sediment concentrates exists when , mainly of magma local pollution because of , Pt and Pd of most of the individual minerals as exists will be , perhaps sulfides with is not spatially related .

Platinum group metals usually two of the kind mined from mines : platinum group metals main useful component b is dead less sulphide platinum deposits and complicated copper-nickel or copper sulfide mines .

Platinum group metals in South Africa and the United States first of the kind from mines , the second of the kind metals and Russia and It is mined in Canada . Platinum (rossypi) floods, as well as pyrite-polymetallic , copper-porphyry and Other mines are insignificant , with platinum group metals as a by-product produces . Foreign countries (South Africa, Canada, USA , Australia, China and Finland) over 99% of reserves are low sulphide platinum-copper-nickel and in platinum-chromite deposits located Other sources share is less than 0.3% . Some platinum group metals in countries as a by-product in the metallurgical processing of other mineral ores produced . In Canada multicomponent copper ore processing as a result, more than 700 kg of platinum-palladium alloy is produced , its contains 85% palladium, 12% platinum and 3% major platinum group metals There is . South Every ton is refined in Africa copper 654 g of platinum, 973 g of rhodium and up to 25 g of palladium are produced for in



Finland copper every year in melting about 70 kg of PGM as a by-product is taken . Platinum group metals are also mined in some CIS countries . In particular , Ust-Kamenogorsk kombinati (Kazakhstan) annually from pyrite-polymetallic ores about 75 kg of platinum group metals separately takes More than 98 % of proven PGM reserves in Russia are in the Arctic zone located are platinum group metals more than 95% of production is copper-nickel sulfide from ores comes .

Platinum group metals resources , reserves and dig in of growth new source different on all continents age rocks between developed to metal have high carbon are complexes . This type of platinum metal deposits Southern China , Finland, Canada, Czech Republic, USA , Poland , Kazakhstan and Central In Asia known) and Russia's very different regions wide developed . This of ores to oneself characteristic feature their half metallic is a composition . PGMs with one in line (their concentration per ton one how many per gram per ton one how many dozens to the gram changes), they industry on a scale other metals (Mo, Ni, Zn, Cu, Pb , Ag, Co, U, V, P, W, Au, Bi, Se and Te) amount own inside will take . Unique precious metal resources ocean at the bottom iron-manganese nodes (PGM 0.2-45 g/t), as well as continental light in shells (New Caledonia , Indonesia , Brazil , Cuba , Greece , South Siberia and Russia Long East of iron caps and laterites) are collected .

Conclusion .

Research institutions by take visited one row research mineral raw thing in the composition gold and platinum amount determination issues solution did . Russia Sciences academy Long East department in Blagoveshchensk Geology and mineralogy institute team (N.V. Moiseenko , S.V. Shchipachev , N.S. Sanilevich and T.B. Makeeva) in 2005 Southern Khingan from the mine manganese from ores precious metal samples to take the results announcement They did .

Southern Africa and Russia platinum group metals (PGM) in the world leader delivery providers is a PGM to release world on a scale general from 80% of the volume the rest organization does .

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